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Pages 1

01600010111-2

Copy 2 of 3

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CONFIDENTIAL

November 10, 1966

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P. O. Box 6788
Fort Davis Station
Washington, D. C. 20020

Declass Review by NGA.

Attention:

Reference:

Subject: Monthly Report

Gentlemen:

Enclosed are five (5) copies of the 28th Monthly Letter
Report covering the period of October 1, 1966, to
November 1, 1966, in accordance with the referenced contract.

Yours truly,

INFORMATION SYSTEMS

Manager, Contracts

TKL:ks

Encs: one (1) to Contracting Officer
✓ four (4) to Technical Monitor

"This material contains information affecting the national defense of the United States within the meaning of the espionage laws, Title 18, U. S. C., sections 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law."

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CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

TWENTY-EIGHTH MONTHLY LETTER REPORT

November 10, 1966

Period: October 1, 1966 to November 1, 1966



25X1

TABLE OF CONTENTS

<u>Section No.</u>		<u>Page No.</u>
1.0	<u>CONTACT DUPLICATING AND RESEAU PRINTER</u>	1
1.1	<u>Purpose</u>	1
1.2	<u>Activity of this Report Period</u>	1
1.3	<u>Plans for Next Period</u>	2
1.4	<u>Problems</u>	2
1.5	<u>Documentation</u>	2
1.6	<u>Questions Outstanding</u>	2
2.0	<u>HIGH RESOLUTION STEP AND REPEAT PRINTER</u>	3
2.1	<u>Purpose</u>	3
2.2	<u>Activity of This Report Period</u>	3

1.0 CONTACT DUPLICATING AND RESEAU PRINTER

1.1 Purpose

The overall objective of the current contract is the design, fabrication, test and delivery of a Photographic, Step and Repeat, Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will be suitable for operational use. The printer will accommodate films of 70mm to 9½-inch width with frame lengths up to 30 inches and will provide operation in the Reseau mode and selective mode as options.

1.2 Activity of this report period

A proposal for a 5-week testing program to be conducted

25X1 [] was submitted to the Contracting Officer.

Additional proposals for the film measuring device and for an advanced punching station will be prepared during the five-week test program.

The Punch Station was shipped to [] from 25X1 Washington for modification and alignment.

An investigation of measuring techniques in the micron region was conducted. A Unitron toolmaker's microscope, possibly implemented with a Vickers Image Splitting

Measuring eyepiece looks to be the most promising method for checking punch alignment at present.

A trip was made to [] for consultations toward improving the operation of the Punch Station. Some general recommendations were made which may be useful if a modification program is initiated. No further consultation is expected at this time.

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1.3 Plans for Next Period

Initiate test and modification program at []

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1.4 Problems

Outstanding problems are:

- a. Modification to the Preview and Punch Station to permit final calibration.
- b. Correction of erratic metering of raw stock.
- c. Retest of exposure lamp balance.

1.5 Documentation

There was no new documentation this period.

1.6 Questions Outstanding

There are no outstanding questions.

2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision step and repeat photographic contact printer.

This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll films of width varying from 70mm to 9½ inches and in pre-selected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this report period

There was no activity this month. The stop-work period expired January 11, 1966. is still awaiting Government direction.

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